

**Desired State Matrix**  
March 27, 2006 Draft

Emphasis would be given to major types of work that DNR is doing or DNR knows that needs to be done that logically cuts across program boundaries. Agriculture, Development and Redevelopment and Pharmaceuticals were identified as major issues during internal discussions directed at how Green Tier might be used. These potential areas for Green Tier initiatives are not fully developed but do start to express how Green Tier might be used to accomplish environmental performance as an adjunct to traditional regulatory approaches. The following table shows cells of work that would be undertaken to achieve a desired state, challenging Green Tier participants to build environmental management programs that work across program boundaries while challenging DNR programs to look comprehensively at the existing and emerging environmental issues with the potential for Green Tier as a tool to accomplish all or a part of the desired environmental outcomes.

The table frames the question of emphasis on four planes – emerging issues, unregulated aspects, pressures outpacing actions and better relationships. For emerging issues can Green Tier be a new tool for new issues? For unregulated aspects can Green Tier provide approaches that tap capacity, complimenting traditional approaches? For ground that may be lost due to the pace and nature of change can Green Tier fill gaps by uniting environmental and economic problem solving. For better relationships can Green Tier provide the incentives and governance that will create effective coalitions delivering continual improvement to environmental performance? The cells in the table portray sectors of work in some cases looking at a business sector such as agriculture and in others with a stronger issue orientation such as climate change and greenhouse gases. The initial draft of the matrix narrative explores the potential to craft internal and external invitations to use Green Tier to address human health impacts, empower individual/community action and enable economic potential.

Emerging Issues	Unregulated Aspects	Pressures Outpacing Actions	Better Relationships
<b><u>Agriculture</u></b> <ul style="list-style-type: none"><li>• Plastics use and disposal</li><li>• Issues coming from the Water Quality Advisory Committee</li><li>• Advances coming from the Discovery Farms</li><li>• Manure (unregulated/under-regulated aspects)</li></ul> <b><u>Land Application to Agricultural Lands</u></b> <ul style="list-style-type: none"><li>• Processes used and constituents considered for application of wastes to agricultural lands</li></ul>	<b><u>Agriculture</u></b> <ul style="list-style-type: none"><li>• Antibiotics</li><li>• Bio based products – production issues</li></ul>	<b><u>Agriculture</u></b> <ul style="list-style-type: none"><li>• Keep working lands</li><li>• Natural Capital Value – Can’t lose farms given overall environmental value versus other uses that replace farming</li><li>• Environmental management more difficult with owner fragmentation</li></ul>	<b><u>Agriculture</u></b> <ul style="list-style-type: none"><li>• Plastics</li><li>• Odor</li><li>• Agrichem Issues</li><li>• DATCP</li><li>• Agricultural, Environmental Group and Local Government relationships related to siting.</li></ul> <b><u>Land Application to Agricultural Lands</u></b> <ul style="list-style-type: none"><li>• New ways of doing business and methods to achieve superior environmental performance with land applicators</li></ul>
<b><u>Aquaculture</u></b> <ul style="list-style-type: none"><li>• Ongoing management issues include:<ul style="list-style-type: none"><li>○ Management of bait fish</li><li>○ Regulation and control of species raised</li><li>○ How the waters of the state are used.</li></ul></li><li>• Fish diseases are potentially the next “CWD” in the context of water and fisheries management that could be approached in the context of Green Tier.</li></ul>	<b><u>Aquaculture</u></b>	<b><u>Aquaculture</u></b>	<b><u>Aquaculture</u></b> <ul style="list-style-type: none"><li>• Working relationships with DATCP in the development of shared approaches to working with the sector.</li></ul>
<b><u>Climate Change/ Greenhouse Gases</u></b> <ul style="list-style-type: none"><li>•</li></ul>	<b><u>Climate Change/ Greenhouse Gases</u></b> <ul style="list-style-type: none"><li>•</li></ul>	<b><u>Climate Change/ Greenhouse Gases</u></b> <ul style="list-style-type: none"><li>•</li></ul>	<b><u>Climate Change/ Greenhouse Gases</u></b> <ul style="list-style-type: none"><li>•</li></ul>

Emerging Issues	Unregulated Aspects	Losing Ground	Better Relationships
<p><b><u>Development and Redevelopment</u></b></p> <ul style="list-style-type: none"><li>• Forest Fragmentation</li><li>• Waterfronts and the use of and access to water are becoming increasingly contentious and this would be a way to address some of the management issues and also to reduce some of the potential for conflicts.</li></ul>	<p><b><u>Development and Redevelopment</u></b></p> <ul style="list-style-type: none"><li>• Managing development around waste sites and abandoned waste sites</li></ul>	<p><b><u>Development and Redevelopment</u></b></p> <ul style="list-style-type: none"><li>• Division of responsibilities between agencies and questions of consistency and need for clarity of roles</li></ul>	<p><b><u>Development and Redevelopment</u></b></p> <ul style="list-style-type: none"><li>• Redevelopment/Development of former orchard sites [DATCP is now forming an external group with DNR and DHFS to address the orchard issue – so there may also be someone from the Green Tier Advisors who would wish to participate]<ul style="list-style-type: none"><li>○ As a mechanism to put the agencies, other governmental units, developers and responsible parties on the same page.</li><li>○ As a means to address varying lead and arsenic standards – resolve issues over differing/conflicting soil standards [NR 720 planned for revisions]</li></ul></li><li>• Waterfront redevelopment<ul style="list-style-type: none"><li>○ Development on lake bed/shoreline/public trust doctrine issues</li><li>○ Understanding differing goals of DNR program and avoiding conflict</li><li>○ Coordination/communication of DNR decisions – internally and externally</li><li>○ Timing and clarification of decisions</li><li>○ Simplifying public information for communities and developers on redeveloping waterfronts that involve contaminated property</li></ul></li><li>• PECFA Bidding<ul style="list-style-type: none"><li>○ Customers are concerned with PECFA/Commerce bidding process for UST cleanups</li><li>○ Perception that development is delayed</li><li>○ Want clear, streamlined bidding and clean-up process for UST brownfield sites</li><li>○ Raised by the Brownfields Study Group</li><li>○ Primarily a Dept of Commerce issue as they are the lead – not DNR. They did agree to a \$7,500 to waive bidding.</li></ul></li><li>• Waste Sites</li><li>• Realtors’ Association<ul style="list-style-type: none"><li>○ Property Sales</li><li>○ Development – disclosure, sale and best use</li></ul></li></ul>

			<ul style="list-style-type: none"> <li>One Clean-up Program Memorandum of Agreement with USEPA (to enhance cleanups and redevelopment) <ul style="list-style-type: none"> <li>Since 2003, DNR has been negotiating an MOA with EPA to help facilitate clean up and reuse of contaminated properties</li> <li>Goal of agreement was to recognize current DNR-Region V system of allowing most sites into the state's comprehensive clean-up program (i.e. NR 700), even through some sites had federal jurisdiction (e.g. RCRA hazardous waste).</li> <li>EPA headquarters is not recognizing the current DNR – Region V system as adequate, although it has been in place for years.</li> </ul> </li> </ul>
<u><b>Energy</b></u> <ul style="list-style-type: none"> <li>Bio Fuels (Ethanol, Biodiesel, etc.)</li> <li>Hydrogen</li> <li>Electric Generating Units</li> </ul>	<u><b>Energy</b></u> <ul style="list-style-type: none"> <li>Renewable Energy</li> <li>Woodburning (residential and commercial - fabrication of outdoor units and responsiveness to emissions standards)</li> <li>Biomass</li> </ul>	<u><b>Energy</b></u> <ul style="list-style-type: none"> <li>Woodburning (residential and commercial - fabrication of outdoor units and responsiveness to emissions standards) – particulate and exposure issues</li> </ul>	<u><b>Energy</b></u>
<u><b>PBT's and PBDE's</b></u> <ul style="list-style-type: none"> <li>Not much currently being done</li> <li>Need for more scientific information</li> <li>Opportunity to work across multiple programs and disciplines</li> </ul>	<u><b>PBT's and PBDE's</b></u> <ul style="list-style-type: none"> <li>Mercury in products (switches, thermostats, medical equipment, etc.)</li> <li>Mercury releases to the air (beyond current regulations)</li> </ul>	<u><b>PBT's and PBDE's</b></u>	<u><b>PBT's and PBDE's</b></u>
<u><b>Pharmaceuticals</b></u>	<u><b>Pharmaceuticals</b></u> Antibiotics <ul style="list-style-type: none"> <li>Technologies and protocols for detection</li> <li>Assessment and communication of environmental and health risks</li> <li>Management of environmental issues from point and non-point sources</li> </ul>	<u><b>Pharmaceuticals</b></u>	<u><b>Pharmaceuticals</b></u>
<u><b>Water - Geographic Emphasis</b></u> <ul style="list-style-type: none"> <li>Non-point source and storm water runoff for entities that can help to improve environmental performance.</li> </ul>	<u><b>Water - Geographic Emphasis</b></u> <ul style="list-style-type: none"> <li>Vulnerability Assessment</li> <li>Examination of and focus on impaired waters using flexibility to address a more broad range of issues.</li> </ul>	<u><b>Water - Geographic Emphasis</b></u>	<u><b>Water - Geographic Emphasis</b></u> <ul style="list-style-type: none"> <li>Variety of non-point source and storm water runoff issues</li> </ul>
<u><b>Working Lands</b></u> <ul style="list-style-type: none"> <li>Once land is broken into parcels, re-aggregating the land is almost impossible;</li> </ul>	<u><b>Working Lands</b></u>	<u><b>Working Lands</b></u>	<u><b>Working Lands</b></u>

<ul style="list-style-type: none"><li>○ Green Tier opportunities may exist in enabling conservation easements and in the creation and management of Agriculture enterprise zones.</li><li>○ Other opportunities also exist to designate areas for development and ways to drive development when it occurs.</li></ul>			
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